September 1979 NSRP 0006

SHIP PRODUCTION COMMITTEE
FACILITIES AND ENVIRONMENTAL EFFECTS
SURFACE PREPARATION AND COATINGS
DESIGN/PRODUCTION INTEGRATION
HUMAN RESOURCE INNOVATION
MARINE INDUSTRY STANDARDS
WELDING
INDUSTRIAL ENGINEERING
EDUCATION AND TRAINING

THE NATIONAL SHIPBUILDING RESEARCH PROGRAM

Proceedings of the REAPS Technical Symposium

Paper No. 28: ICCAS '79 Highlights

U.S. DEPARTMENT OF THE NAVY
CARDEROCK DIVISION,
NAVAL SURFACE WARFARE CENTER

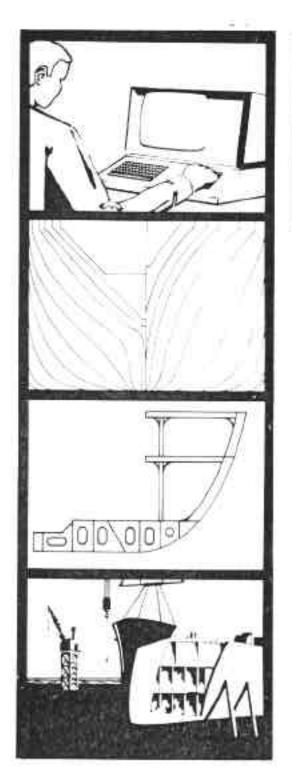
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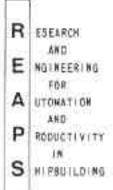
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ICCAS '79 HIGHLIGHTS

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Mr. Moore is currently the Newport News REAPS technical representative, the Project Manager of the low cost parts definition project, and is a member of a structural CAD/CAM project. He received his degrees in naval architecture and marine engineering from the University of Michigan. Together with Doug Martin, he authored the paper, "Requirements and Benefits of Integrated Computer Aided Ship Design and Production" presented at ICCAS 79.

Mr. Moore's past experience includes management responsibility at different times for Mold Loft, Fabrication Shop and Assembly Shops. He has also been instrumental in the implementation of AUTOKON; with additional experience in facility planning for the automation of steel fabrication, and manufacturing engineering.

ICCAS '79

INTERNATIONAL CONFERENCE ON COMPUTER APPLICATIONS IN THE AUTOMATION OF SHIPYARD OPERATION AND SHIP DESIGN, III,

UNI VERSITY OF STRATHCLYDE, GLASGOW, SCOTLAND
JUNE 18-21, 1979

TOPICS

- GENERAL TOPICS IN SHIP TECHNOLOGY
- COMPUTER AIDED SHIP DESIGN
- COMPUTER AIDED SHIP PRODUCTION
- INFORMATION SYSTEMS FOR SHIPBUILDING'
- GRAPHICS AND COMMUNICATIONS' IN SHIP TECKNOGY
- WORKSHOP SESSIONS'
 - EFFECTIVENESS AND ECQNOMICS OF COMPUTING
 - DESIGN AND IMPLEMENTATION OF COMPUTER AIDED SYSTEMS.
 - COMPUTER ASSISTED TEACHING/TRAINING
 - MANAGEMENT OF CHANGE

PAPERS COMMON TO ICCAS '79 AND CURRENT SYMPOSIUM

- REQUIREMENTS AND BENEFITS OF INTEGRATED COMPUTER AIDED SHIP DESIGN AND PRODUCTION.
 - D. J. MARTIN/R, C, MOORE
- SCAFCO, A CAD AND CAM INTEGRATED SYSTEM FROM BASIC DESIGN TO ASSEMBLY,
 - R. DI LUCA/E. BAIS
- INTERACTIVE AUTOKON: FOCUSSING ON THE INFORMATION SYSTEM
 - J. F. MACK/J. ØI AN/P. SORENSEN
- NEW CONCEPTS AND DP SYSTEMS ARCHITECTURE IN HULL DETAIL DESIGN.

P. BANDA

PAPERS OF INTEREST

• INTERACTIVE DESIGN OF FAIR HULL SURFACES USING B-SPLINES.

MUNCHMEYER/SCHUBERT/NOWACKI

• SHI P SURFACE DESIGN BY TRANSFORMING GIVEN MESH REPRESENTATIONS,

RABIEN

- COMPUTER SYSTEM FOR SHIP PROPULSIVE PERFORMANCE, OGI WARA/NAMI MATSU/OCHI/MORI
- A PROGRAM SYSTEM FOR STRENGTH AND VIBRATION CALCULATIONS FOR SHIP STRUCTURE,

PEDERSEN/JENSEN

• CAD CAM IN FRENCH SHIPYARD,

ESNIS

• AN ASSOCIATIVE RING STRUCTURE FOR ALLEVIATING SPATIAL INTERFERENCES,

NEHRLI NG

• GERMANI SHER LLOYDS DATA BASE FOR SHIP STRUCTURAL DATA.

KAUBE

• CONCISE DESCRIPTION AND AUTOMATIC FINITE ELEMENT MODELLING OF SHIP STRUCTURES WITH "DEMAIN".

DE CASTEL/FINIFTER

- NESTING OF MORE THAN A LAYOUT PROBLEM,
 SPERLING
- PANSY, AN ADVANCED INTERACTIVE PARTS NESTING SYSTEM, IKEDA
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The complete set of preprints for ICCAS '79 can be ordered from Elsevier North-Holland Inc.,'52 Vanderbilt Ave, New York, NY 10017. Reference C. Kuo, et al, "Computer Application in the Automation of Shipyard Operation and Ship Design III". Price \$73.25.

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